

DIC.PPS FZ-3600-D5

Polyphenylene Sulfide

DIC Corporation

Message:

Outline: FZ-3600-D5 is a glass fiber and mineral filled polyphenylene sulfide compound that provides enhanced strength and moldability compared to general purpose grade FZ-3600

Color: Black and Natural (Brown)

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Good Moldability		
	High Strength		
UL File Number	E53829		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.88	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.25	%	
Across Flow	1.0	%	
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	100		
R-Scale	121		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18500	MPa	ASTM D638
Tensile Strength	140	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	17000	MPa	ASTM D790
Flexural Strength	230	MPa	ASTM D790
Compressive Strength	180	MPa	ASTM D695
Poisson's Ratio	0.34		
Coefficient of Friction ¹			ASTM D1894
vs. Steel - Dynamic	0.35		
vs. Steel - Static	0.35		

Flexural Elongation at Break	1.6	%	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	85	J/m	ASTM D256
Unnotched Izod Impact	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	265	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 90°C	1.8E-5	cm/cm/°C	
Transverse : -30 to 90°C	1.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	16	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index	250	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	300 to 340	°C	
Middle Temperature	300 to 340	°C	
Front Temperature	300 to 340	°C	
Mold Temperature	120 to 150	°C	
NOTE			

1. P=150KPa, V=0.3m/s

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